- 1. Process for reducing plant availability of heavy metals in substrates, characterized in that the substrates—are treated with cross-linked polyacrylates or polymethacrylates.
- 2. Process according to Claim 1, characterized in that the substrates are treaded by means of mixing.
- 3. Process according to Claim 2, characterized in that in mixing, the amount of additive is 0.1 to 2.5% by weight.
- 4. Process according to Claim 3, characterized in that in mixing, the amount of additive is 0.5 to 2.0% by weight.
- 5. Process according to Claim 1, characterized in that the cross-linked poly(meth) acrylates are produced by using monoethylenically unsaturated monocarboxylic acids, in particular acrylic acid or its salts.
- 6. Process according to Claim 5, characterized in that the poly(meth)acrylates are produced by using other monoethylenically unsaturated monomers containing no carboxylate groups, in particular by using acrylamide.
- 7. Process according to Claims 5 or 6, characterized in that the poly(meth)acrylates are obtained by using methylenbis(meth)acrylamide, ethylenbis(meth)acrylamide, N-methylolacrylamide or triallylamin as cross-linking agents, whereby methylenbisacrylamide is preferred.
- 8. Process according to one or more of Claims 5 to 7, characterized in that the poly(meth)acrylates are treated with a subsequent cross-linking agent in quantities of 0.01 to 10% by weight, at an increased temperature, preferably between 80 and 250° C.
- 9. Process according to one or more of Claims 5 to 8, characterized in that the acidic monomer components of the poly(meth) acrylate are neutralized between 10 and 95 mol percent, preferably between 50 and 90 mol percent.
- 10. Process according to one or more of Claims 5 to 9, characterized in that the poly(meth)acrylates have an absorption capacity for synthetic soil solution of more than 30 g/g, preferably more than 50 g/g, and especially more than 65 g/g.
- 11. Process according to one or more of Claims 5 to 10, characterized in that the poly(meth) acrylates are worked into the acid soil up to a depth of about 50 cm.
- 12. Use of cross-linked polymeth) acrylates to reduce plant